IAP12 Rec'd PCT/PTO 03 MAY 2006

SEQUENCE TABLE

Sequence number : 1

Sequence length 21

Sequence type PRT

Other information: SP of HLA-E

Sequence

Met Val Asp Gly Thr Leu Leu Leu Leu Leu Ser Glu Ala Leu Ala

Leu Thr Gln Thr Trp Ala

Sequence number : 2

Sequence length 90

Sequence type

PRT

Other information: all domain of HLA-E

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Glu Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 3

Sequence length 92

PRT Sequence type

Other information: a2 domain of HLA-E

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Glu Gln Lys Ser Asn Asp Ala Ser Glu Ala Glu His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu His Leu

Sequence number : 4
Sequence length : 92
Sequence type : PRT

Other information: a3 domain of HLA-E

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 5
Sequence length : 63
Sequence type : PRT

Other information: Transmembrane domain of HLA-E

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 6

Sequence length : 63

Sequence type : DNA

Other information: SP of HLA-E

Sequence

atggtagatg gaacceteet tttacteete teggaggeee tggeeettae ceagacetgg 60

gcg

Sequence number : 7

Sequence length : 270

Sequence type : DNA

Other information: all domain of HLA-E

Sequence

ggeteceaet eettgaagta ttteeaeaet teegtgteee ggeeeggeeg eggggageec 60
egetteatet etgtgggeta egtggaegae acceagtteg tgegettega eaacgaegee 120
gegagteega ggatggtgee gegggeege tggatggage aggagggte agagtattgg 180
gaeegggaga eaeggagege eagggaeaee geaeagattt teegagtgaa tetgeggaeg 240
etgegegget actacaatea gagegaggee

Sequence number : 8

Sequence length : 276

Sequence type : DNA

Other information: a2 domain of HLA-E

Sequence

gggtctcaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgacag gcgcttcctc 60
cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg 120
cgctcctgga ccgcggtgga cacggcggct cagatctccg agcaaaagtc aaatgatgcc 180
tctgaggcgg agcaccagag agcctacctg gaagacacat gcgtggagtg gctccacaaa 240
tacctggaga aggggaagga gacgctgctt cacctg

amanagana nagaganagan garanag

Sequence number : 9

Sequence length : 276

Sequence type : DNA

Other information:

α3 domain of HLA-E

Sequence

gagcccccaa agacacagt gactcaccac cccatctctg accatgaggc caccctgagg 60
tgctgggccc tgggcttcta ccctgcggag atcacactga cctggcagca ggatgggag 120
ggccataccc aggacacgga gctcgtggag accaggcctg caggggatgg aaccttccag 180
aagtgggcag ctgtggtggt gccttctgga gaggagcaga gatacacgtg ccatgtgcag 240
catgaggggc tacccgagcc cgtcaccctg agatgg

Sequence number : 10 Sequence length : 192

Sequence type : DNA

Other information: Transmembrane domain of HLA-E

Sequence

aageeggett eecageecae eateeceate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaea gtgeecaggg gtetgagtet 180 eacagettgt aa

Sequence number : 11
Sequence length : 24
Sequence type : PRT

Other information: SP of HLA-G1

Sequence

Met Val Val Met Ala Pro Arg Thr Leu Phe Leu Leu Ser Gly Ala Leu Thr Leu Thr Glu Thr Trp Ala

Sequence number : 12 Sequence length : 90 Sequence type : PRT

Other information: all domain of HLA-G1

Sequence

Gly Ser His Ser Met Arg Tyr Phe Ser Ala Ala Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Met Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ser Ala Cys Pro Arg Met Glu Pro Arg Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Glu Thr Arg Asn Thr Lys Ala His Ala Gln Thr Asp Arg Met Asn Leu Gln Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 13 Sequence length : 92

Sequence type : PRT

Other information : $\alpha 2$ domain of HLA-G1

Sequence

Ser Ser His Thr Leu Gln Trp Met Ile Gly Cys Asp Leu Gly Ser Asp Gly Arg Leu Leu Arg Gly Tyr Glu Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Leu Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Lys Arg Lys Cys Glu Ala Ala Asn Val Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys Glu Met Leu Gln Arg Ala

Sequence number : 14
Sequence length : 92
Sequence type : PRT

Other information: a3 domain of HLA-G1

Sequence

Asp Pro Pro Lys Thr His Val Thr His His Pro Val Phe Asp Tyr Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Ile Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Met Leu Arg Trp

Sequence number : 15
Sequence length : 40
Sequence type : PRT

Other information: Transmembrane domain of HLA-G1

Sequence

Lys Gln Ser Ser Leu Pro Thr Ile Pro Ile Met Gly Ile Val Ala Gly Leu Val Val Leu Ala Ala Val Val Thr Gly Ala Ala Val Ala Ala Val Leu Trp Arg Lys Lys Ser Ser Asp *

Sequence number : 16
Sequence length : 72
Sequence type : DNA

Other information: SP of HLA-G1

Sequence

atggtggtca tggcgcccg aaccetette etgetgetet egggggeeet gaccetgace 60

gagacctggg cg

Sequence number : 17
Sequence length : 270
Sequence type : DNA

Other information: a1 domain of HLA-G1

Sequence

ggeteceaet ceatgaggta ttteagegee geegtgteee ggeeggeeg eggggageee 60 egetteateg ceatgggeta egtggaegae acgeagtteg tgeggttega eagegaeteg 120

gcgtgtccga ggatggagcc gcgggcgccg tgggtggagc aggagggcc agagtattgg 180 gaagaggaga cacggaacac caaggcccac gcacagactg acagaatgaa cctgcagacc 240 ctgcgcggct actacaacca gagcgaggcc

Sequence number : 18
Sequence length : 276
Sequence type : DNA

Other information : \alpha 2 domain of HLA-G1

Sequence

agtteteaca ceeteeagtg gatgattgge tgegacetgg ggteegaegg tegeeteete 60
egegggtatg aacagtatge etacgatgge aaggattace tegeeetgaa egaggaeetg 120
egeteetgga eegeagegga eactgegget eagateteea agegeaagtg tgaggeggee 180
aatgtggetg aacaaaggag ageetaeetg gagggeaegt gegtggagtg geteeacaga 240
tacetggaga aegggaagga gatgetgeag egegeg

Sequence number : 19
Sequence length : 276
Sequence type : DNA

Other information: \alpha 3 domain of HLA-G1

Sequence

gacccccca agacacact gacccacac cetgtetttg actatgagge caccetgagg 60
tgetgggece tgggetteta ecetgeggag atcatactga cetggeageg ggatgggag 120
gaccagacce aggacgtgga getegtggag accaggeetg eaggggatgg aacetteeag 180
aagtgggeag etgtggtggt geettetgga gaggageaga gatacacgtg ceatgtgeag 240
catgagggge tgeeggagee eceteatgetg agatgg

Sequence number : 20
Sequence length : 123
Sequence type : DNA

Other information: Transmembrane domain of HLA-G1

Sequence

Sequence number : 21
Sequence length : 24
Sequence type : PRT

Other information: Reformed SP

Sequence

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Ser Gly Ala Leu Thr Leu Thr Glu Thr Trp Ala

Sequence number : 22 Sequence length : 90 Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 23
Sequence length : 92
Sequence type : PRT

Other information : $\alpha 2$ domain

Sequence

Ser Ser His Thr Leu Gln Trp Met Ile Gly Cys Asp Leu Gly Ser
Asp Gly Arg Leu Leu Arg Gly Tyr Glu Gln Tyr Ala Tyr Asp Gly
Lys Asp Tyr Leu Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala
Ala Asp Thr Ala Ala Gln Ile Ser Lys Arg Lys Cys Glu Ala Ala
Asn Val Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Thr Cys Val
Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys Glu Met Leu Gln
Arg Ala

Sequence number : 24
Sequence length : 92
Sequence type : PRT

Other information : α 3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 25
Sequence length : 63
Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser

His Ser Leu *

Sequence number : 26 Sequence length : 72

Sequence type : DNA

Other information: Reformed SP

Sequence

atggcggtca tggcgcccg aaccetcgtc ctgctactct cggggggccct gaccetgacc 60 gagacetggg cg

Sequence number : 27
Sequence length : 270
Sequence type : DNA

Other information : $\alpha 1$ domain

Sequence

ggeteceaet cettgaagta tttecaeaet teegtgteee ggeeeggeeg eggggageee 60
egetteatet etgtgggeta egtggaegae acceagtteg tgegettega eaacgaegee 120
gegagteega ggatggtgee gegggeege tggatggage aggagggte agagtattgg 180
gaeegggaga eaeggagege eagggaeaee geaeagattt teegagtgaa tetgeggaeg 240
etgegegget actaeaatea gagegaggee

Sequence number : 28
Sequence length : 276
Sequence type : DNA

Other information : $\alpha 2$ domain

Sequence

agttctcaca ccctccagtg gatgattggc tgcgacctgg ggtccgacgg tcgcctcctc 60
cgcgggtatg aacagtatgc ctacgatggc aaggattacc tcgccctgaa cgaggacctg 120
cgctcctgga ccgcagcgga cactgcggct cagatctcca agcgcaagtg tgaggcggc 180
aatgtggctg aacaaaggag agcctacctg gagggcacgt gcgtggagtg gctccacaga 240

tacctggaga acgggaagga gatgctgcag cgcgcg

Sequence number : 29 Sequence length : 276

Sequence type : DNA

Other information : a3 domain

Sequence

gagececeaa agacacagt gacteaceae eccatetetg accatgagge caccetgagg 60
tgetgggece tgggetteta ecctgeggag ateacactga ectggeagea ggatgggag 120
ggecatacee aggacaegga getegtggag accaggeetg eaggggatgg aacetteeag 180
aagtgggeag etgtggtggt geettetgga gaggageaga gatacaegtg ecatgtgeag 240
eatgagggge taccegagee egteaceetg agatgg

Sequence number : 30
Sequence length : 192
Sequence type : DNA

Other information: Transmembrane domain

Sequence

aagceggett eecageeeae eateeeate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaea gtgeeeagg gtetgagtet 180 cacagettgt aa

Sequence number : 31
Sequence length : 24
Sequence type : PRT

Other information: Reformed SP

Sequence

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Ser Gly Ala Leu Thr Leu Thr Glu Thr Trp Ala Sequence number : 32
Sequence length : 90
Sequence terms : PR

Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Gln Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 33
Sequence length : 92
Sequence type : PRT

Other information : $\alpha 2$ domain

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Lys Arg Lys Cys Glu Ala Ala Asn Val Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys Glu Met Leu Gln Arg Ala

Sequence number : 34
Sequence length : 92
Sequence type : PRT

Other information : α 3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 35
Sequence length : 63
Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 36
Sequence length : 72
Sequence type : DNA

Other information: Reformed SP

Sequence

atggeggtea tggegeeeg aaccetegte etgetaetet egggggeeet gaeeetgaee 60 gagaeetggg eg

Sequence number : 37 Sequence length : 270 Sequence type

DNA

Other information:

α1 domain

Sequence

ggeteceaet eettgaagta ttteeaeaet teegtgteee ggeeeggeeg eggggageee 60
egetteatet etgtgggeta egtggaegae acceagtteg tgegettega eaacgaegee 120
gegagteega ggatggtgee gegggeege tggatggage aggagggte agagtattgg 180
gaeegggaga eaeggagege eagggaeaee geaeagattt teegagtgaa tetgeggaeg 240
etgegegget actaeaatea gagegaggee

Sequence number:

38

Sequence length

276

Sequence type

DNA

Other information:

α2 domain

Sequence

gggtctcaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgacag gcgcttcetc

cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg

cgctcctgga ccgcggtgga cactgcggct cagatctcca agcgcaagtg tgaggcggcc

aatgtggctg aacaaaggag agcctacctg gagggcacgt gcgtggagtg gctccacaga

tacctggaga acgggaagga gatgctgcag cgcgcg

Sequence number :

39

Sequence length

276

Sequence type

DNA

Other information:

α3 domain

Sequence

gagececcaa agacacagt gacteaceae eccatetetg accatgagge caccetgagg 60
tgetgggeee tgggetteta ecctgeggag ateacactga eetggeagea ggatgggag 120
ggecatacee aggacacgga getegtggag accaggeetg eaggggatgg aacetteeag 180
aagtgggeag etgtggtggt geettetgga gaggageaga gatacacgtg ecatgtgeag 240
eatgagggge taccegagee egteaceetg agatgg

Sequence number : 40 Sequence length : 192

Sequence type : DNA

Other information: Transmembrane domain

Sequence

cacagcttgt aa

aagceggett eecageeeae eateeeeate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaca gtgeeeagg gtetgagtet 180

Sequence number : 41 Sequence length : 24

Sequence type : PRT

Other information: Reformed SP

Sequence

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Ser Gly Ala Leu Thr Leu Thr Glu Thr Trp Ala

Sequence number : 42
Sequence length : 90
Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Gln Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Sequence number : 43 Sequence length : 92

Sequence type : PRT

Other information: a2 domain

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Lys Arg Lys Cys Glu Ala Ala Ser Glu Ala Glu His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu His Leu

Sequence number : 44
Sequence length : 92
Sequence type : PRT

Other information: a3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 45
Sequence length : 63
Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 46

Sequence length : 72

Sequence type : DNA

Other information: Reformed SP

Sequence

atggeggtea tggegeeeg aaccetegte etgetaetet egggggeeet gaeeetgaee 60

gagacctggg cg

Sequence number : 47

Sequence length : 270

Sequence type : DNA

Other information : $\alpha 1$ domain

Sequence

ggctcccact cettgaagta tttecacact teegtgteee ggcccggccg eggggageee 60
egetteatet etgtgggeta egtggacgac acceagtteg tgegettega eaacgaegee 120
gegagteega ggatggtgee gegggegeeg tggatggage aggagggte agagtattgg 180
gaccgggaga eaeggagege eagggaeaee geacagattt teegagtgaa tetgeggaeg 240
etgegegget actacaatea gagegaggee

Sequence number : 48

Sequence length : 276

Sequence type : DNA

Other information : $\alpha 2$ domain

Sequence

60 gggtctcaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgacag gcgcttcctc 120 cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg cgctcctgga ccgcggtgga cactgcggct cagatctcca agcgcaagtg tgaggcggcc 180 240 tetgaggegg agcaccagag agcetacetg gaagacacat gegtggagtg getecacaaa tacctggaga aggggaagga gacgctgctt cacctg

Sequence number :

49

Sequence length

276

Sequence type

DNA

Other information : α 3 domain

Sequence

gagececcaa agacacaegt gaeteaceae eccatetetg accatgagge caecetgagg 60 tgctgggccc tgggcttcta ccctgcggag atcacactga cctggcagca ggatggggag 120 180 ggccataccc aggacacgga gctcgtggag accaggcctg caggggatgg aaccttccag aagtgggcag ctgtggtggt gccttctgga gaggagcaga gatacacgtg ccatgtgcag 240 catgagggc tacccgagcc cgtcaccctg agatgg

Sequence number :

50

Sequence length

192

Sequence type

DNA

Other information:

Transmembrane domain

Sequence

aageeggett eecageeeae cateeceate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagctactc taaggetgag tggagegaca gtgeecaggg gtctgagtet 180 cacagcttgt aa

Sequence number :

Sequence length : 21

Sequence type : PRT

Other information: SP of HLA-E

Sequence

Met Val Asp Gly Thr Leu Leu Leu Leu Leu Ser Glu Ala Leu Ala Leu Thr Gln Thr Trp Ala

Sequence number : 52 Sequence length : 90

Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Gln Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 53
Sequence length : 92
Sequence type : PRT

Other information: \alpha 2 domain

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Glu Gln Lys Cys Asn Asp Ala Ser Glu Ala Glu His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu

His Leu

Sequence number : 54
Sequence length : 92

Sequence type : PRT

Other information: a3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 55
Sequence length : 63
Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 56
Sequence length : 63
Sequence type : DNA

Other information: SP of HLA-E

Sequence

atggtagatg gaacceteet tttacteete teggaggeee tggeeettae ceagacetgg 60

gcg

Sequence number : 57
Sequence length : 270
Sequence type : DNA

Other information : $\alpha 1$ domain

Sequence

ggeteceaet eettgaagta ttteeaeaet teegtgteee ggeeeggeeg eggggageee 60
egetteatet etgtgggeta egtggaegae acceagtteg tgegettega eaacgaegee 120
gegagteega ggatggtgee gegggeege tggatggage aggagggte agagtattgg 180
gaeegggaga eaeggagege eagggaeaee geaeagattt teegagtgaa tetgeggaeg 240
etgegegget actacaatea gagegaggee

Sequence number : 58
Sequence length : 276
Sequence type : DNA

Other information : $\alpha 2$ domain

Sequence

gggtctcaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgacag gcgcttcctc

cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg

120

cgctcctgga ccgcggtgga cacggcggct cagatctccg agcaaaagtg taatgatgcc

tctgaggcgg agcaccagag agcctacctg gaagacacat gcgtggagtg gctccacaaa

240

tacctggaga aggggaagga gacgctgctt cacctg

Sequence number : 59
Sequence length : 276
Sequence type : DNA

Other information : α 3 domain

Sequence

gagcccccaa agacacagt gactcaccac cccatctctg accatgaggc caccctgagg 60
tgctgggccc tgggcttcta ccctgcggag atcacactga cctggcagca ggatgggag 120
ggccataccc aggacacgga gctcgtggag accaggcctg caggggatgg aaccttccag 180
aagtgggcag ctgtggtggt gccttctgga gaggagcaga gatacacgtg ccatgtgcag 240
catgaggggc tacccgagcc cgtcaccctg agatgg

Sequence number : 60
Sequence length : 192
Sequence type : DNA

Other information: Transmembrane domain

Sequence

aageeggett eecageecae cateeceate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaca gtgeecaggg gtetgagtet 180 cacagettgt aa

Sequence number : 61
Sequence length : 24
Sequence type : PRT

Other information: Reformed SP

Sequence

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Ser Gly Ala Leu Thr Leu Thr Glu Thr Trp Ala

Sequence number : 62
Sequence length : 90
Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Gln Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 63
Sequence length : 92
Sequence type : PRT

Other information : $\alpha 2$ domain

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Glu Gln Lys Cys Asn Asp Ala Ser Glu Ala Glu His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu His Leu

Sequence number : 64
Sequence length : 92
Sequence type : PRT

Other information: a3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 65
Sequence length : 63
Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 66
Sequence length : 72
Sequence type : DNA

Other information: Reformed SP

Sequence

atggcggtca tggcgccccg aaccetcgtc ctgctactct cggggggccct gaccetgacc 60

gagacctggg cg

Sequence number : 67
Sequence length : 270
Sequence type : DNA

Other information : $\alpha 1$ domain

Sequence

ggeteceaet eettgaagta ttteeaeaet teegtgteee ggeeeggeeg eggggageee 60 egetteatet etgtgggeta egtggaegae acceagtteg tgegettega eaaegaegee 120 gegagteega ggatggtgee gegggegeeg tggatggage aggagggte agagtattgg 180 gaccgggaga cacggagcgc cagggacacc gcacagattt tccgagtgaa tctgcggacg 240 ctgcgcggct actacaatca gagcgaggcc

Sequence number : 68
Sequence length : 276
Sequence type : DNA

Other information : $\alpha 2$ domain

Sequence

gggtctcaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgacag gcgcttcctc

cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg

tctgaggcgg agcaccagag agcctacctg gaagacacat gcgtggagtg gctccacaaa

240

tacctggaga aggggaagga gacgctgctt cacctg

Sequence number : 69
Sequence length : 276
Sequence type : DNA

Other information : α 3 domain

Sequence

gagececeaa agacacacgt gacteaceae eccatetetg accatgagge caccetgagg 60
tgetgggeee tgggetteta ecctgeggag ateacactga ectggeagea ggatgggag 120
ggecatacee aggacacgga getegtggag accaggeetg eaggggatgg aacetteeag 180
aagtgggeag etgtggtggt geettetgga gaggageaga gatacacgtg ecatgtgeag 240
eatgagggge taccegagee egteaceetg agatgg

Sequence number : 70
Sequence length : 192
Sequence type : DNA

Other information: Transmembrane domain

Sequence

aagccggett cccagcccac catecccate gtgggcatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaca gtgeecaggg gtetgagtet 180 cacagettgt aa

Sequence number : 71
Sequence length : 21
Sequence type : PRT

Other information: SP of HLA-E

Sequence

Met Val Asp Gly Thr Leu Leu Leu Leu Ser Glu Ala Leu Ala Leu Thr Gln Thr Trp Ala

Sequence number : 72 Sequence length : 90 Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ala Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Gln Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 73
Sequence length : 92
Sequence type : PRT

Other information : $\alpha 2$ domain

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Glu Gln Lys Cys Asn Asp Ala Ser Glu Ala Glu His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu His Leu

Sequence number : 74
Sequence length : 92

Sequence type : PRT

Other information: a3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 75 Sequence length : 63

Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 76 Sequence length : 63

Sequence type : DNA

Other information : SP of HLA-E

Sequence

gcg

atggtagatg gaacceteet tttacteete teggaggeee tggeeettae eeagacetgg 60

Sequence number : 77
Sequence length : 270
Sequence type : DNA

Other information : $\alpha 1$ domain

Sequence

ggeteceaet eettgaagta ttteeaeaet geegtgteee ggeeggeeg eggggageee 60
egetteatet etgtgggeta egtggaegae acceagtteg tgegettega eaacgaegee 120
gegagteega ggatggtgee gegggeege tggatggage aggagggte agagtattgg 180
gaeegggaga eaeggagege eagggaeaee geaeagattt teegagtgaa tetgeggaeg 240
etgegegget actaeaatea gagegaggee

Sequence number : 78
Sequence length : 276
Sequence type : DNA

Other information : $\alpha 2$ domain

Sequence

gggtctcaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgacag gcgcttcctc

cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg

tctgaggcgg agcaccagag agcctacctg gaagacacat gcgtggagtg gctcacaaa

240

tacctggaga aggggaagga gacgctgctt cacctg

Sequence number : 79 Sequence length : 276

Sequence type : DNA

Other information : a3 domain

Sequence

gagececcaa agacacagt gacteaceae eccatetetg accatgagge caccetgagg 60
tgetgggeee tgggetteta ecctgeggag ateacactga ectggeagea ggatgggag 120
ggecatacee aggacacgga getegtggag accaggeetg eaggggatgg aacetteeag 180
aagtgggeag etgtggtggt geettetgga gaggageaga gatacacgtg ecatgtgeag 240
eatgagggge taccegagee egteaceetg agatgg

Sequence number : 80
Sequence length : 192
Sequence type : DNA

Other information: Transmembrane domain

Sequence

aagceggett eecageecae cateeceate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaca gtgeecaggg gtetgagtet 180 caeagettgt aa

Sequence number : 81
Sequence length : 24
Sequence type : PRT

Other information: Reformed SP

Sequence

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Ser Gly Ala Leu Thr Leu Thr Glu Thr Trp Ala Sequence number : 82
Sequence length : 90
Sequence type : PRT

Other information : $\alpha 1$ domain

Sequence

Gly Ser His Ser Leu Lys Tyr Phe His Thr Ala Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg Ala Pro Trp Met Glu Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala

Sequence number : 83
Sequence length : 92
Sequence type : PRT

Other information : \alpha 2 domain

Sequence

Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr Ala Ala Gln Ile Ser Glu Gln Lys Cys Asn Asp Ala Ser Glu Ala Glu His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu His Leu

Sequence number : 84
Sequence length : 92
Sequence type : PRT

Other information : α 3 domain

Sequence

Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp

Sequence number : 85 Sequence length : 63

Sequence type : PRT

Other information: Transmembrane domain

Sequence

Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu *

Sequence number : 86
Sequence length : 73
Sequence type : DNA

Other information: Reformed SP

Sequence

atggeggtea tggegeceg aaccetegte etgetaetet egggggeeet gaecetgaee 60 gagacetggg eg

Sequence number : 87 Sequence length : 270 Sequence type

DNA

Other information:

α1 domain

Sequence

60 ggctcccact ccttgaagta tttccacact gccgtgtccc ggcccggccg cggggagccc 120 cgcttcatct ctgtgggcta cgtggacgac acccagttcg tgcgcttcga caacgacgcc 180 gcgagtccga ggatggtgcc gcgggcgccg tggatggagc aggaggggtc agagtattgg 240 gaccgggaga cacggagcgc cagggacacc gcacagattt tccgagtgaa tctgcggacg ctgcgcggct actacaatca gagcgaggcc

Sequence number :

88

Sequence length

276

Sequence type

DNA

Other information:

α2 domain

Sequence

60 gggteteaca ecetgeagtg gatgeatgge tgegagetgg ggeeegacag gegetteete 120 egegggtatg aacagttege etacgaegge aaggattate teaccetgaa tgaggaeetg 180 cgctcctgga ccgcggtgga cacggcggct cagatetecg agcaaaagtg taatgatgee 240 tetgaggegg ageaccagag ageetacetg gaagacacat gegtggagtg getecacaaa tacctggaga aggggaagga gacgctgctt cacctg

Sequence number :

89

Sequence length

276

Sequence type

DNA

Other information : \alpha 3 domain

Sequence

gagececeaa agacacaegt gaeteaceae eccatetetg accatgagge eaccetgagg 60 120 tgetgggeec tgggetteta ecetgeggag ateacaetga eetggeagea ggatggggag ggccataccc aggacacgga gctcgtggag accaggcctg caggggatgg aaccttccag 180 aagtgggcag ctgtggtggt gccttctgga gaggagcaga gatacacgtg ccatgtgcag 240 catgagggc tacccgagcc cgtcaccctg agatgg

Sequence number : 90 Sequence length : 192

Sequence type : DNA

Other information: Transmembrane domain

Sequence

aagceggett eecageecac eateeceate gtgggeatea ttgetggeet ggtteteett 60 ggatetgtgg tetetggage tgtggttget getgtgatat ggaggaagaa gageteaggt 120 ggaaaaggag ggagetaete taaggetgag tggagegaca gtgeecaggg gtetgagtet 180 eacagettgt aa